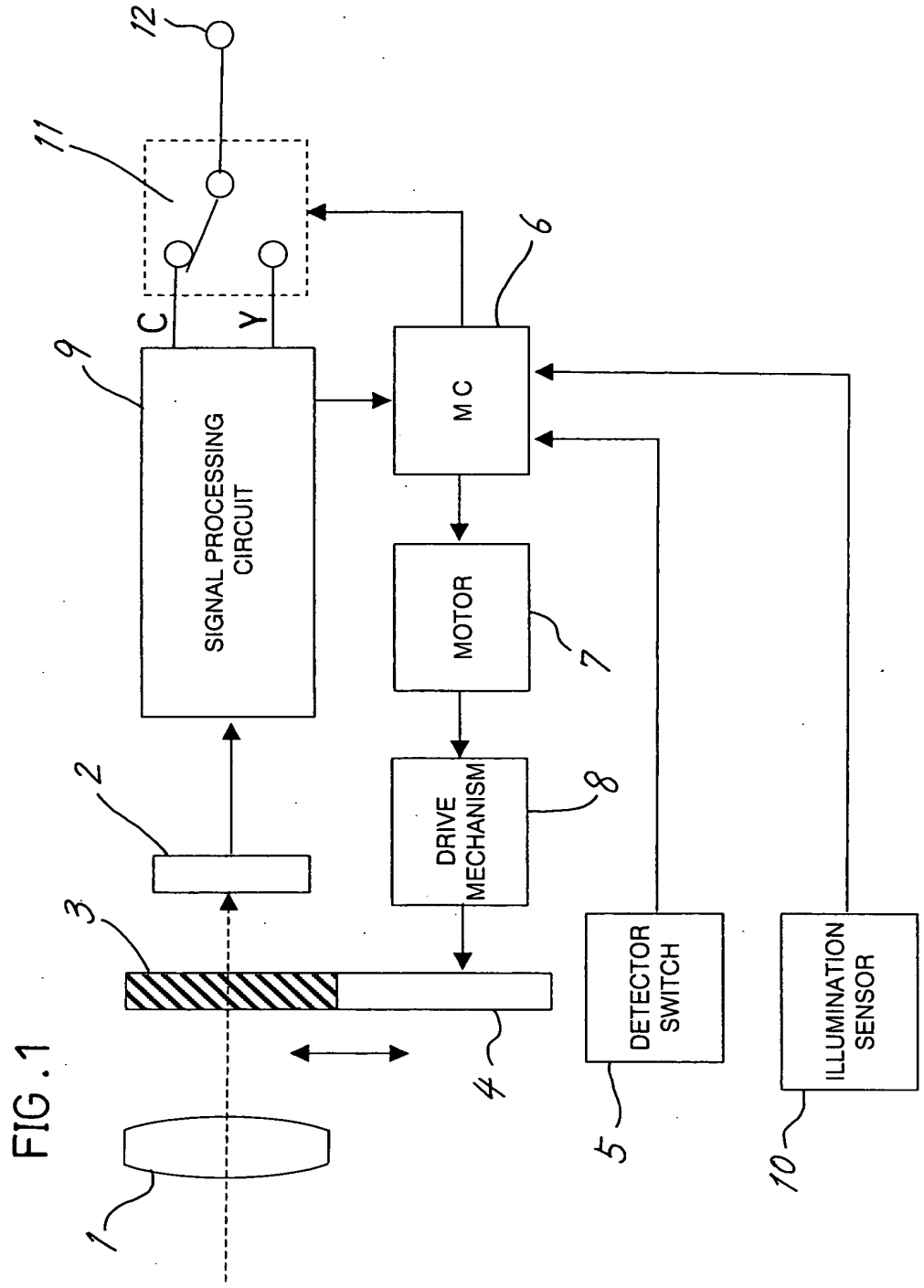

12
11
C
Y
9
SIGNAL PROCESSING CIRCUIT
6
M C
MOTOR
7
DRIVE MECHANISM
8
2
3
4
1
5
DETECTOR SWITCH
10
ILLUMINATION SENSOR

FIG. 1

FIG. 2

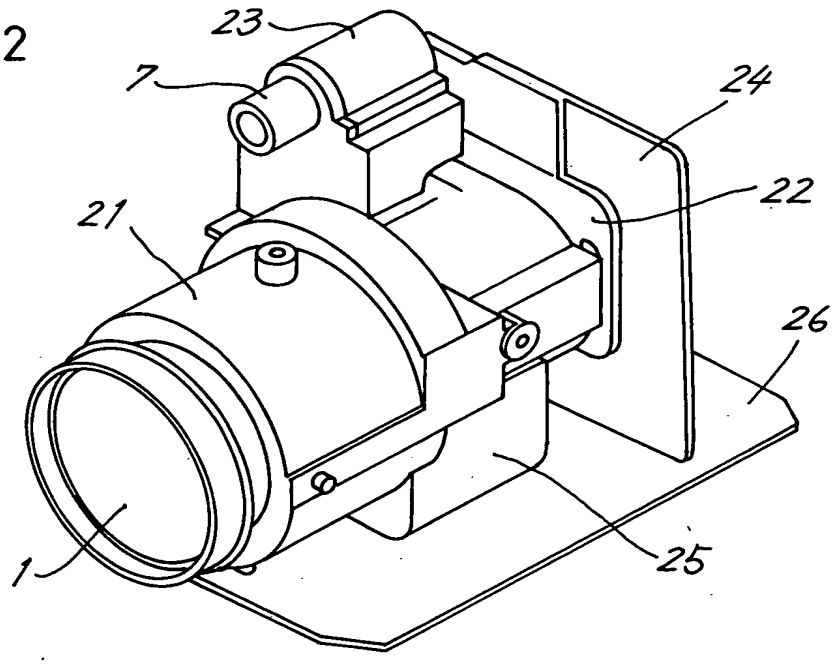

23
7
24
22
21
26
1
25

FIG. 3

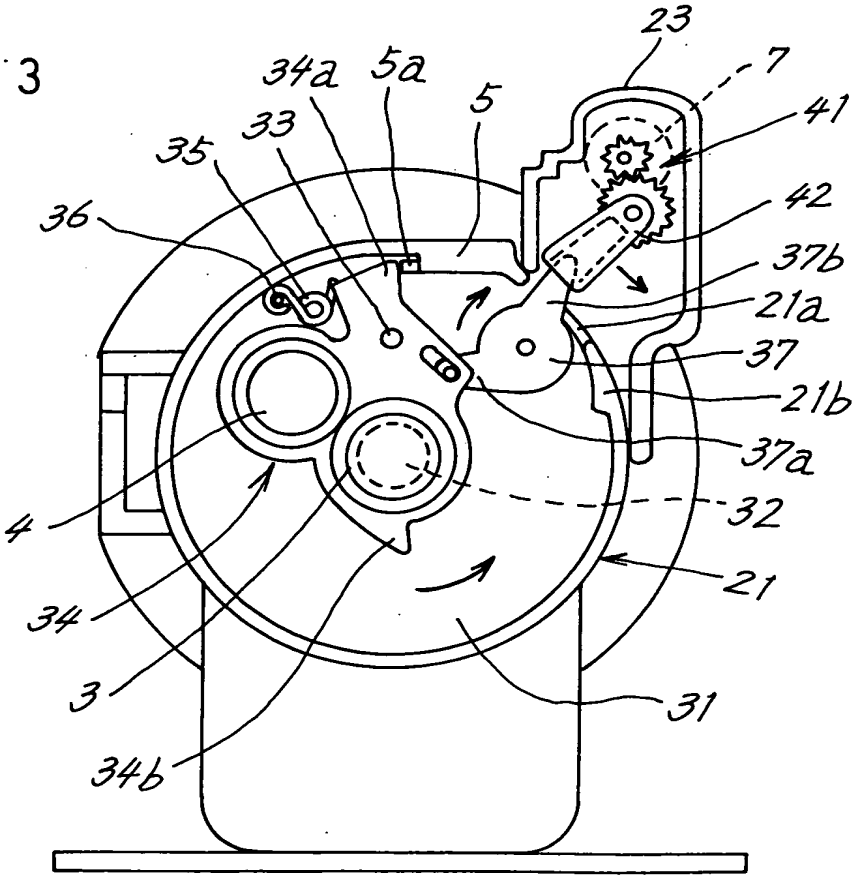

23
7
34a
5a
5
41
33
35
42
36
37b
21a
37
21b
37a
32
4
21
34
3
31
34b

FIG. 4

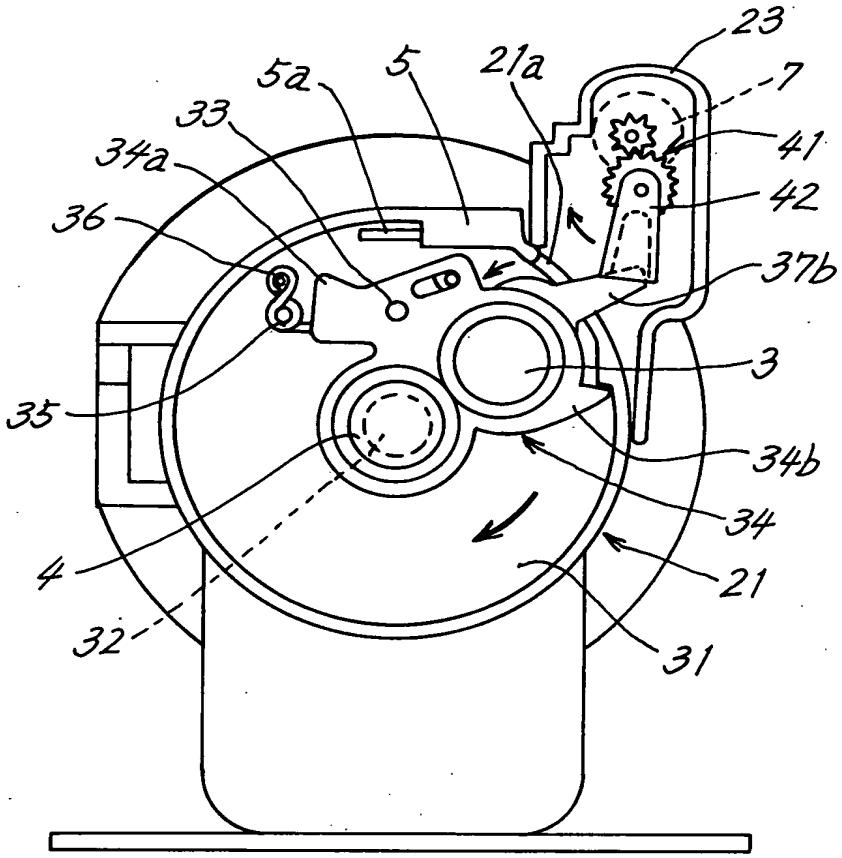


FIG. 5

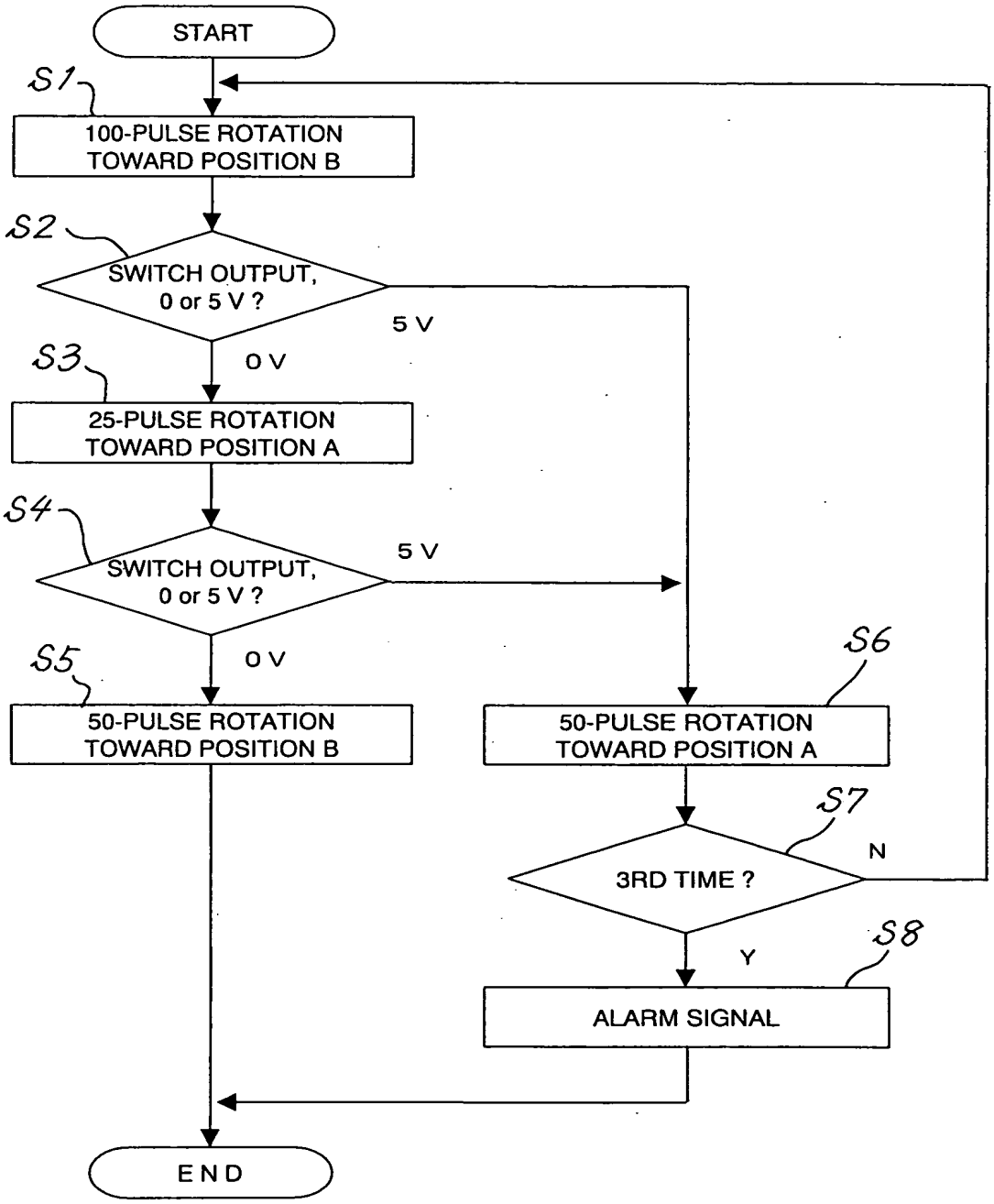

START
S1
100-PULSE ROTATION TOWARD POSITION B
S2
SWITCH OUTPUT, 0 or 5 V ?
5 V
0 V
S3
25-PULSE ROTATION TOWARD POSITION A
S4
SWITCH OUTPUT, 0 or 5 V ?
5 V
0 V
S5
50-PULSE ROTATION TOWARD POSITION B
S6
50-PULSE ROTATION TOWARD POSITION A
S7
3RD TIME ?
N
Y
S8
ALARM SIGNAL
END

FIG. 6

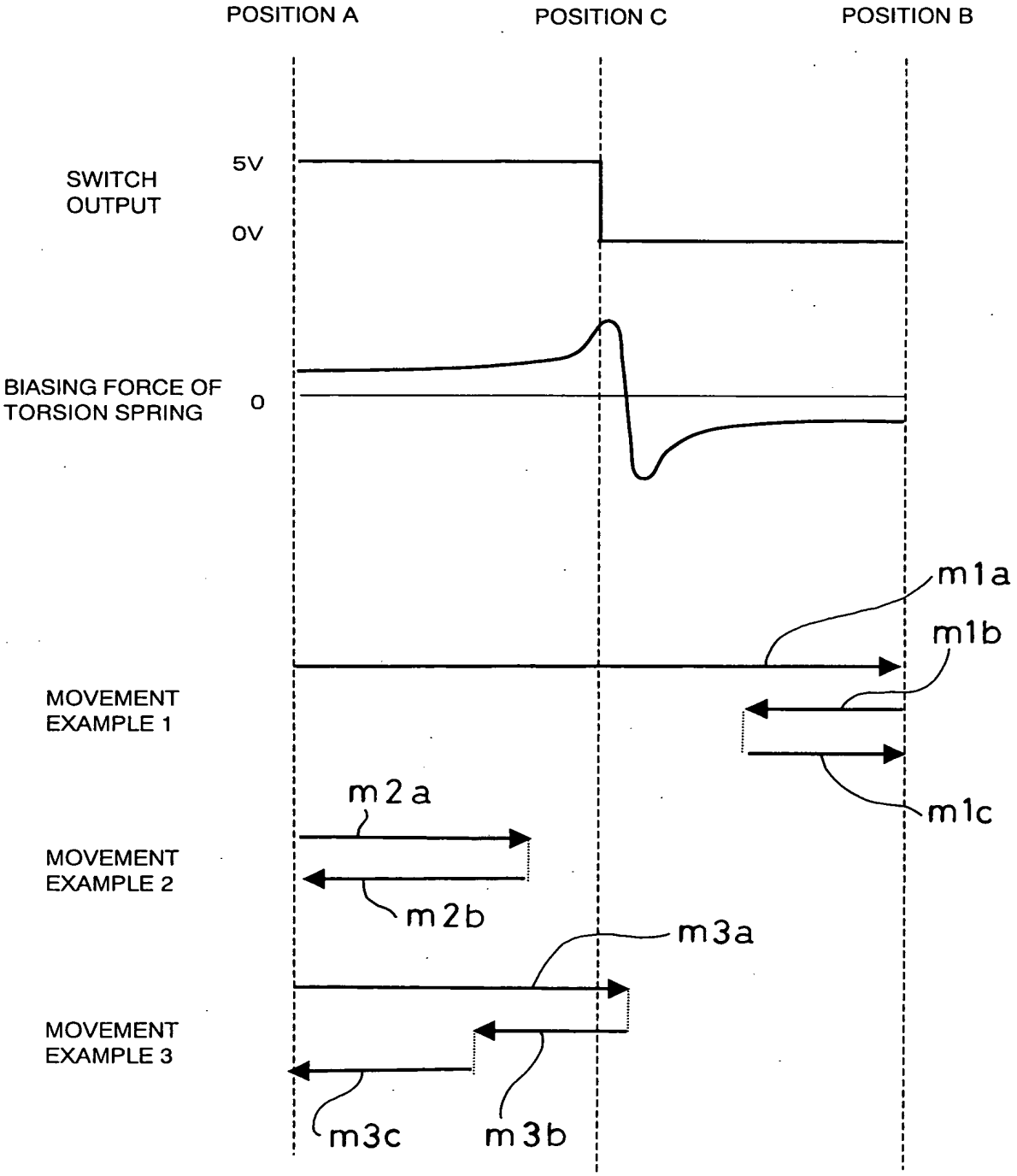
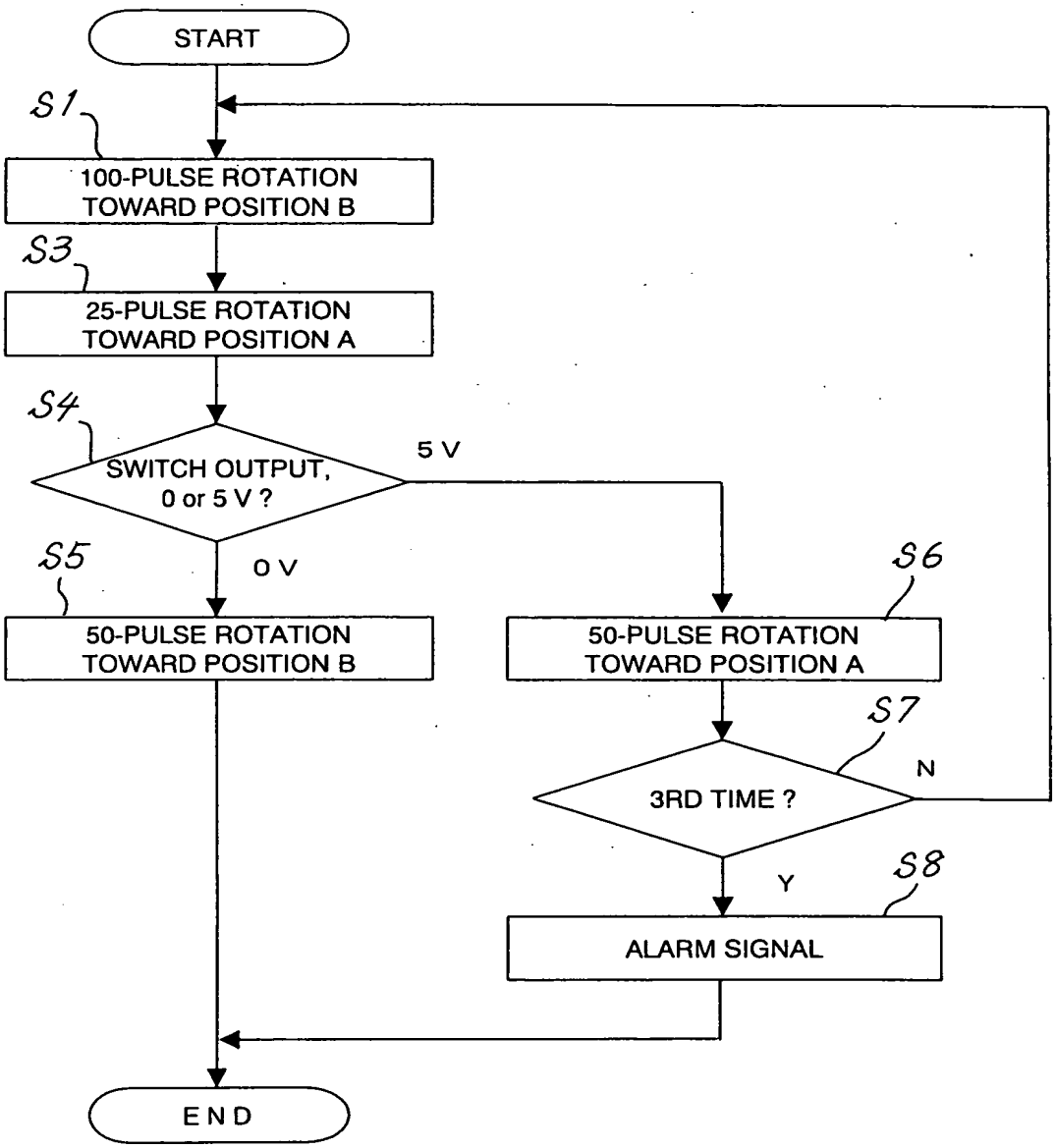

POSITION A
POSITION C
POSITION B
SWITCH OUTPUT
5V
0V
BIASING FORCE OF TORSION SPRING
0
MOVEMENT EXAMPLE 1
m1a
m1b
m1c
MOVEMENT EXAMPLE 2
m2a
m2b
MOVEMENT EXAMPLE 3
m3a
m3c
m3b

FIG. 7


START
S1
100-PULSE ROTATION TOWARD POSITION B
S3
25-PULSE ROTATION TOWARD POSITION A
S4
SWITCH OUTPUT, 0 or 5 V ?
5 V
0 V
S5
50-PULSE ROTATION TOWARD POSITION B
S6
50-PULSE ROTATION TOWARD POSITION A
S7
3RD TIME ?
N
Y
S8
ALARM SIGNAL
END